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# A CHECK LIST OF THE MARINE AND FRESHWATER FISHES OF VIETNAM

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*I would like to express my deepest gratitude to Dr. Itiro Tomiyama for making this check list possible. Dr. Tomiyama performed most of the arduous task of checking the synonymy of the names in the list. Very few ichthyologists have the qualifications to handle such a broad range of species, including both freshwater and marine forms. I am extremely fortunate that he was kind enough to do this for me.*

## Introduction

The purpose of this check list is to bring together in one publication the names of all Vietnamese freshwater and marine fishes. I hope it will serve as a base for future ichthyological and general fisheries research in Vietnam. I also hope it will familiarize ichthyologists in other countries with the fauna of this area and promote exchanges of material between the Oceanographic Institute of Nhatrang and other scientific institutions.

This work was begun in 1968 when I was advisor to the Oceanographic Institute of Nhatrang for the Agency for International Development. It covers both North and South Vietnam, the Paracel Islands and the island of Poulo Condore. It is a compilation of names from many publications and records dating back to 1878 and a correction of their synonymy. Also listed are a few species I collected on the coral reefs of Nhatrang Bay and which were not previously reported from Vietnam.

The list totals 1458 species and subspecies. Those species present in the collection of the Oceanographic Institute are marked with an asterisk.

In spite of the large number of species listed the fish fauna of Vietnam is still not well known. As recently as 1963 P. Fourmanoir discovered 306 marine species new to Vietnam, and his major source of material was the commercial catch of Nhatrang. We may get an idea of the number of species still unreported by comparing the 1458 known Vietnamese species with the approximately 2200 species known from the Philippines. Vietnam should not necessarily equal the Philippines in the richness of its fauna as the island coasts of the latter country probably contain a greater variety of marine habitats than exist in Vietnam. On the other hand, Vietnam boasts a richer freshwater fauna than does the Philippines. Approximately 300 freshwater

species have been recorded from Vietnam and the freshwater fauna can be said to be fairly well known. But since very little collecting has been done at ocean depths greater than 100 meters many new species should be present on the continental slopes.

### **Zoogeography**

Vietnam lies on the southeast corner of Asia near the junction of the Indian and Pacific Oceans. This places it in an advantageous position to share in the faunae of several different areas. From the west, through the Straits of Malacca, trickles the fauna of the Indian Ocean. On the east, Vietnam is open to the invasion of Pacific Ocean fishes. From the north, along the continental shelf, come the coastal fishes of China and Japan. To the south, connected with Vietnam by a broad and shallow continental shelf, lies Indonesia and its rich marine fauna.

The shallow water fishes are typical of the Indo-Pacific region. Whereas, those found in depths greater than 80 meters are representative of the Japanese region. According to Chevey (1934) these northern fishes are found at the surface in Japan. Apparently, a deep southward flowing current, running parallel to the coast brings these fishes to Vietnam. During the winter monsoon, cold water from the ocean deeps, which lie close to the coast of central Vietnam, rises over the continental shelf. The summer monsoon creates currents that drive the cold waters and the fishes associated with them back off the shelf.

The freshwater fauna is heavily influenced by Vietnam's closeness to South China with its extremely rich and varied cyprinoid and catfish groups. The family Cyprinidae is Vietnam's largest, totalling 172 species. There are 7 families and 67 species of freshwater catfishes if the freshwater members of the Ariidae are counted.

The freshwater fauna is also very similar to that of Indonesia. During glacial times Vietnam and Indonesia were united by land (Krempf and Chevey, 1936).

### **A Short History of Ichthyology in Vietnam**

The dawn of ichthyology in Vietnam came in 1876 when H.E. Sauvage published descriptions of new species of fish from the freshwaters of Vietnam. A few years later (1881) Sauvage discussed the fish fauna of Southeast Asia and again described new species from Vietnam and Cambodia.

The first major work on Vietnamese fishes was written in 1883 when Dr. Gilbert Tirant published his memoir on the fishes of the River of Hue (Tirant, 1929a, reprinted). Dr. Tirant was the French administrator for native affairs in Indochina and also mayor of Cholon, the Chinese section of Saigon. In this first list of Vietnamese fishes he described 70 species taken from the brackish waters of this river. Eight of these species were new to science. Two years later he brought out a work on the fishes of the southern part of Vietnam and Cambodia (Tirant, 1929b, reprinted). In this paper he described the biology and fishery of 221 species of sharks, rays, cyprinids, clupeids and several other groups. His list of 233 species sent to the Museum

of Lyons, France is the first check list of Vietnamese fishes.

Another early pioneer, L. Vaillant, studied the freshwater fauna of North Vietnam during the 1890's (Vaillant, 1891).

In the early years of the twentieth century much ichthyological research was performed by the Service Océanographique des Pêches de l'Indochine (Oceanographic Service for Indochinese Fisheries). The Service was formed during the early 1920's and later became part of the Oceanographic Institute of Indochina (now that of Nhatrang) when the latter was founded in 1927.

The first check list of Vietnamese fishes intended as such was compiled in 1926 by Paul Chabanaud of the Oceanographic Service. Chabanaud's list ignored the work of earlier ichthyologists and included only species collected in the previous few years by his organization. His list contained 275 freshwater and marine species.

During the next 6 years the Oceanographic Institute continued the investigation of Vietnam's fish fauna and in 1932 the second inventory of Indochinese fishes was published (Chevey, 1932). This new list totalled 375 species, none of them included in Chabanaud's earlier work. Thus, 650 species of fishes were known at that time.

The 1930's saw vigorous activity by the ichthyologists of the Oceanographic Institute, especially in the freshwaters of North Vietnam. "Contribution à l'étude des poissons des eaux douces Tonkinoises" (Contribution to the study of the fishes of North Vietnam) by Chevey and Lemasson (1937) is the most important work of this period. It describes 100 freshwater species, many of them new to science.

After 1939 research at the Oceanographic Institute declined drastically. The outbreak of World War II, the Japanese takeover of Indochina, and the first rumblings of the Vietnamese drive for independence hampered work in the 1940's. Between 1942 and 1947 the Institute was closed. In 1945 it was abandoned for a few months and looted with considerable loss to its collections and facilities. The French attempted to restore the Institute to its former effectiveness but the Indochinese War handicapped them greatly. Between 1952 and 1956 the French and Vietnamese jointly administered the Institute. In the latter year the Vietnamese took complete charge. But they were only partly able to replace the French scientists, all of whom left. Hence, it was not until 1961 that an ichthyological paper came out of Vietnam. This was K. Kuronuma's check list of Vietnamese fishes, a work financed by the United States Operations Mission. It contained 807 species of freshwater and marine fishes. But Kuronuma lacked many of the sources he needed to make his list complete. In 1963, ORSTOM (French Office of Scientific and Technical Overseas Research) sent P. Fourmanoir to the Oceanographic Institute. In ten months of intense activity Fourmanoir identified 306 new species of marine fishes, relying mostly on the Nhatrang market (Fourmanoir, 1965). Ten of these species were new to science.

At the present time there is little ichthyological research underway at the Institute. The war severely hindered any work, especially in the inland waters. Now that the

war appears to have ended, the Institute can provide an ideal base for ichthyologists in Southeast Asia.

### List of Species

1. FAMILY HEXANCHIDAE—COW SHARKS  
*Notorynchus cepedianus* (Péron)
2. FAMILY HETERODONTIDAE—HORN SHARKS  
*Heterodontus zebra* (Gray)\*
3. FAMILY ORECTOLOBIDAE—CAT and CARPET SHARKS  
*Chiloscyllium indicum* (Gmelin)\*                      *Ginglymostoma ferrugineum* (Lesson)  
*Orectolobus japonicus* Regan                      *Stegostoma fasciatum* (Hermann)\*
4. FAMILY RHINCODONTIDAE—WHALE SHARKS  
*Rhincodon typus* (Smith)
5. FAMILY LAMNIDAE—MACKEREL SHARKS  
*Carcharodon carcharias* (Linnaeus)                      *Isurus glaucus* (Müller and Henle)
6. FAMILY ALOPIIDAE—THRESHER SHARKS  
*Alopias vulpinus* (Bonnaterre)
7. FAMILY CARCHARIIDAE—GRAY SHARKS  
*Carcharias tricuspidatus* Day
8. FAMILY SCYLIIORHINIDAE—SWELL and CAT SHARKS  
*Atelomyxerus marmoratus* (Bennett)\*                      *Calliscyllium venustum* Tanaka  
*Cephaloscyllium sufflans* (Regan)                      *Cephaloscyllium umbratile* Jordan and Fowler\*  
*Halaelurus burgeri* (Müller and Henle)
9. FAMILY CARCHARINIDAE—REQUIEM SHARKS  
*Aprionodon acutidens* (Rüppell)                      *Carcharhinus amblyrhynchus* (Bleeker)  
*Carcharhinus dussumieri* (Müller and Henle)                      *Carcharhinus gangeticus* (Müller and Henle)  
*Carcharhinus limbatus* (Müller and Henle)                      *Carcharhinus melanopterus* (Quoy and Gaimard)  
*Carcharhinus menisorrhoea* (Müller and Henle)\*                      *Carcharhinus obscurus* (Lesueur)  
*Carcharhinus sorrah* (Müller and Henle)                      *Galeocerdo cuvieri* (Lesueur)  
*Hemipristis elongatus* (Lunzinger)                      *Loxodon macrorhinus* (Müller and Henle)  
*Negogaleus microstoma* (Bleeker)                      *Scoliodon laticaudus* Müller and Henle\*  
*Scoliodon palasorrhoea* (Cuvier)
10. FAMILY TRIAKIDAE—SMOOTH DOGFISHES  
*Mustelus manazo* Bleeker                      *Triaenodon obesus* (Rüppell)\*
11. FAMILY SPHYRAENIDAE—HAMMERHEAD SHARKS  
*Sphyrna blochi* (Cuvier)\*                      *Sphyrna lewini* (Griffith)  
*Sphyrna mokarran* (Rüppell)                      *Sphyrna zygaena* (Linnaeus)
12. FAMILY PRISTIDAE—SAWFISHES  
*Pristis cuspidatus* Latham\*                      *Pristis zijsron* Bleeker  
*Pristiopsis microdon* (Latham)
13. FAMILY RHINOBATIDAE—GUITAR FISHES  
*Rhina ancylostoma* Bloch and Schneider                      *Rhinobatos granulatus* Cuvier  
*Rhinobatos halavi* (Forskål)                      *Rhinobatos thouni* (Lacépède)\*  
*Rhynchobatus djiddensis* (Forskål)
14. FAMILY RAJIDAE—SKATES  
*Raja meerdevoorti* Bleeker

## 15. FAMILY DASYATIDAE—STINGRAYS

- |   |  |
|---|--|
| <i>Dasyatis bennetti</i> (Müller and Henle)       | <i>Dasyatis bleekeri</i> (Blyth)                 |
| <i>Dasyatis favius</i> (Annandale)                | <i>Dasyatis gruveli</i> (Chabanaud)              |
| <i>Dasyatis imbricatus</i> (Bloch and Schneider)* | <i>Dasyatis krempti</i> Chabanaud                |
| <i>Dasyatis kuhli</i> (Müller and Henle)          | <i>Dasyatis sephen</i> (Forskål)                 |
| <i>Dasyatis zugei</i> (Müller and Henle)*         | <i>Gymnura japonica</i> (Temminck and Schlegel)  |
| <i>Gymnura micrura</i> (Bloch and Schneider)      | <i>Gymnura poecilura</i> (Shaw)*                 |
| <i>Gymnura zonura</i> (Bleeker)                   | <i>Himantura uarnak</i> (Forskål)*               |
| <i>Taeniura lymna</i> (Forskål)*                  | <i>Urogymnus africanus</i> (Bloch and Schneider) |

## 16. FAMILY PLATYRHINIDAE

- Zanobatus schoenleini* (Müller and Henle)

## 17. FAMILY MYLIOBATIDAE—EAGLE RAYS

- |  |   |
|--|---|
| <i>Aetobatus narinari</i> (Euphrasen)            | <i>Aetomylaeus maculatus</i> (Gray)         |
| <i>Aetomylaeus nichofi</i> (Bloch and Schneider) | <i>Rhinoptera javanica</i> Müller and Henle |

## 18. FAMILY MOBULIDAE—MANTA RAYS

- |                                  |                               |
|----------------------------------|-------------------------------|
| <i>Manta birostris</i> (Walbaum) | <i>Mobula diabolus</i> (Shaw) |
|----------------------------------|-------------------------------|

## 19. FAMILY TORPEDINIDAE—ELECTRIC RAYS

- |  |  |
|--|--|
| <i>Narcine lingula</i> (Richardson)          | <i>Narcine maculata</i> (Shaw)*                |
| <i>Narcine timlei</i> (Bloch and Schneider)* | <i>Narke dipterygia</i> (Bloch and Schneider)* |
- Temera hardwicki* Gray

## 20. FAMILY ELOPIDAE—TEN POUNDERS, GIANT HERRINGS

- Elops machanata* (Forskål)\*

## 21. FAMILY MEGALOPIDAE—TARPONS

- Megalops cyprinoides* (Broussonet)\*

## 22. FAMILY ALBULIDAE—LADY FISH, BONE FISH

- Albula vulpes* (Linnaeus)\*

## 23. FAMILY ANGUILLIDAE—FRESHWATER EELS

- |   |   |
|---|---|
| <i>Anguilla elphinstonei</i> Sykes*         | <i>Anguilla japonica</i> Temminck and Schlegel* |
| <i>Anguilla marmorata</i> Quoy and Gaimard* | <i>Anguilla pacifica</i> Schmitt                |

## 24. FAMILY MORINGUIDAE—WORMEELS

- Moringua javanica* (Kaup)\*

## 25. FAMILY MURAENIDAE—MORAY EELS

- |  |   |
|--|---|
| <i>Echidna delicatula</i> (Kaup)                   | <i>Echidna nebulosa</i> (Ahl)*                |
| <i>Echidna polyzona</i> (Richardson)               | <i>Evenchelys macrurus</i> (Bleeker)*         |
| <i>Gymnothorax favagineus</i> Bloch and Schneider* | <i>Gymnothorax meleagris</i> (Shaw)*          |
| <i>Gymnothorax pescadoris</i> Jordan and Evermann  | <i>Gymnothorax pictus</i> (Ahl)*              |
| <i>Gymnothorax pikei</i> Bliss                     | <i>Gymnothorax punctatofasciatus</i> Bleeker* |
| <i>Gymnothorax reticularis</i> Bloch*              | <i>Gymnothorax thrysoideus</i> (Richardson)*  |
| <i>Gymnothorax undulatus</i> (Lacépède)*           |   |

## 26. FAMILY MURAENESOCIDAE—FALSE CONGER EELS

- |  |                                    |
|--|------------------------------------|
| <i>Muraenesox cinereus</i> (Forskål)*    | <i>Muraenesox talabon</i> (Cantor) |
| <i>Muraenesox talabonoides</i> (Bleeker) |                                    |

## 27. FAMILY NEENCHELIDAE

- Neenchelys buitendijki* Weber and De Beaufort\*

## 28. FAMILY NETTASTOMIDAE—DEEP SEA EELS

- Chlopsis ferasfer* Jordan and Snyder\*

## 29. FAMILY CONGRIDAE—CONGER EELS

*Ariosoma anago* (Temminck and Schlegel)\**Conger cinereus* Rüppell\**Uroconger lepturus* (Richardson)\**Bathymyrus simus* J.L.B. Smith*Rhynchoconger ectenurus* (Jordan and Richardson)\*

## 30. FAMILY OPHICHTHYIDAE—SNAKE EELS

*Brachysomophys* sp.*Ophichthys apicalis* (Bennett)\**Pisoodonophis boro* (Hamilton-Buchanan)\**Caecula* sp.*Ophichthys rutiodermatoides* (Bleeker)\**Pisoodonophis cancrivorous* (Richardson)

## 31. FAMILY DYSOMMIDAE

*Dysomma anguillaris* Barnard\*

## 32. FAMILY DOROSOMATIDAE—GIZZARD SHADS

*Anodontosoma chacunda* (Hamilton-Buchanan)\**Clupanodon punctatus* (Temminck and Schlegel)\**Nematolosa nasus* (Bloch)\**Anodontosoma maculatus* (Richardson)\**Clupanodon thrissa* (Linnaeus)

## 33. FAMILY DUSSUMIERIIDAE—ROUND HERRINGS

*Dussumeria acuta* Cuvier and Valenciennes*Spratelloides delicatulus* (Bennett)\**Dussumeria hasselti* Bleeker\*

## 34. FAMILY CULPEIDAE—HERRINGS, SARDINES

*Alosa platygaster* (Günther)*Clupeoides lile* (Cuvier and Valenciennes)\**Corica soborna* Hamilton-Buchanan\**Harengula schrammi* (Bleeker)\**Ilisha brachysoma* (Bleeker)\**Ilisha filigera* (Cuvier and Valenciennes)*Ilisha kampeni* (Weber and De Beaufort)\**Ilisha melastoma* (Cuvier)\**Macrura ilisha* (Hamilton-Buchanan)\**Macrura macrura* (Bleeker)*Macrura thibaudeani* (Durand)\**Pellona ditchela* Cuvier and Valenciennes\**Sardinella albella* (Cuvier and Valenciennes)\**Sardinella clupeoides* (Bleeker)\**Sardinella longiceps* Cuvier and Valenciennes*Sardinella perforata* (Cantor)\**Clupeoides borneensis* Bleeker\**Corica goniognathus* (Bleeker)\**Harengula ovalis* (Bennett)\**Ilisha amblyoptera* (Bleeker)\**Ilisha elongata* (Bennett)\**Ilisha indica* (Swainson)\**Ilisha leschenaulti* (Valenciennes)\**Ilisha xanthoptera* (Bleeker)*Macrura kelee* (Cuvier)\**Macrura sinensis* (Linnaeus)\**Opisthopterus tardoore* (Cuvier)\**Raconda russelliana* Gray\**Sardinella aurita* Cuvier and Valenciennes*Sardinella fimbriata* (Cuvier and Valenciennes)\**Sardinella melanura* (Cuvier)\**Sardinella sirm* (Walbaum)

## 35. FAMILY ENGRAULIDAE—ANCHOVIES

*Coilia borneensis* Bleeker\**Coilia grayi* Richardson\**Coilia macrognathos* Bleeker\**Coilia rebertschki* Bleeker\**Setipinna breviceps* (Cantor)\**Setipinna phasa* (Hamilton-Buchanan)*Stolephorus bataviensis* Hardenberg\**Stolephorus heterolobus* (Rüppell)\**Stolephorus tri* (Bleeker)*Thrissina baelama* (Forskål)*Thrissoles hamiltoni* (Gray)\**Thrissoles malabarica* (Bloch)\**Thrissoles setirostris* (Broussonet)*Coilia dussumieri* Cuvier and Valenciennes*Coilia lindmanni* Bleeker\**Coilia mystus* (Linnaeus)*Lycothrissa crocodilus* (Bleeker)\**Setipinna melanochir* (Bleeker)\**Setipinna taty* (Cuvier and Valenciennes)\**Stolephorus commersoni* Lacépède\**Stolephorus indicus* (Van Hasselt)\**Stolephorus zollingeri* (Bleeker)\**Thrissoles dussumieri* (Cuvier and Valenciennes)\**Thrissoles kammalensis* (Bleeker)*Thrissoles mystax* (Bloch and Schneider)\*





- Cyclocheilichthys siaja* (Bleeker)  
*Cyprinus carpio multitaeniata* Pellegrin and Chevey\*  
*Dangila cuvieri* Cuvier and Valenciennes\*  
*Danio albolineatus* (Blyth)  
*Elopichthys bambusa* (Richardson)\*  
*Erythroculter pseudobrevicaudata* Nichols and Pope\*  
*Esomus danrica* (Hamilton-Buchanan)\*  
*Garra caudofasciata* (Pellegrin and Chevey)\*  
*Garra orientalis* Nichols\*  
*Gnathopogon atromaculatus* Nichols and Pope
- Hemibarbus labeo* (Pallas)\*  
*Hemiculter clupeioides* Nichols\*  
*Hemiculter kremphi* Pellegrin and Chevey\*  
*Hemiculter serracanthus* Nichols and Pope\*  
*Hypophthalmichthys molitrix* (Cuvier and Valenciennes)\*  
*Labeo collaris* Nichols and Pope\*  
*Labeo erythrura* Fowler  
*Labeo pleurotaenia* (Bleeker)  
*Labeo xanthogenys* Pellegrin and Chevey\*  
*Labiobarbus leptocheilus* (Cuvier and Valenciennes)\*  
*Labiobarbus siamensis* (Sauvage)\*  
*Leptobarbus melanotaenia* Boulenger\*  
*Leptobarbus tchangii* Pellegrin and Chevey  
*Luciobrama longiceps* Pellegrin  
*Luciosoma setigerum* (Cuvier and Valenciennes)\*
- Megalobrama affinis* (Vaillant)\*
- Megalobrama melrosei* Nichols and Pope\*  
*Mylopharyngodon aethiops* (Basilewsky)\*  
*Onychostoma laticeps* Günther\*  
*Onychostoma macracanthus* Pellegrin and Chevey\*  
*Opsarichthys elegans* Pellegrin and Chevey\*  
*Opsarichthys uncirostris* (Temminck and Schlegel)  
*Osteochilus borneensis* (Bleeker)  
*Osteochilus melanopleura* (Bleeker)\*  
*Osteochilus salsburyi* Nichols and Pope\*  
*Osteochilus simus* (Sauvage)  
*Osteochilus spilura* (Bleeker)  
*Osteochilus vittatus* (Cuvier and Valenciennes)\*  
*Oxygaster siamensis* (Günther)\*  
*Paralaubuca stigmabrachium* (Fowler)\*  
*Phoxinus lagowski* Dybowski\*  
*Pseudogyrinocheilus prochilus* (Sauvage and de Thiersant)\*  
*Puntioplites proctozyson* (Bleeker)\*  
*Puntius annamensis* Pellegrin and Chevey  
*Puntius aurotaeniatus* (Tirant)  
*Puntius bramoides* (Cuvier and Valenciennes)\*  
*Puntius bulu* (Bleeker)\*  
*Puntius elongatus* (Seale)
- Cyprinus carpio* Linnaeus\*  
 (Hybrid) *Cyprinus carpio* × *Carassius auratus*\*  
*Dangila fasciata* Bleeker  
*Danio rheinarti* Tirant  
*Erythroculter erythropterus* (Basilewsky)  
*Erythroculter recurviceps* (Richardson)  
*Garra bourreti* (Pellegrin)\*  
*Garra gracilis* (Pellegrin and Chevey)\*  
*Garra poilanei* Petit and Tchang  
*Hampala macrolepidota* (Cuvier and Valenciennes)\*  
*Hemiculter balnei* (Sauvage)\*  
*Hemiculter jabouillei* Chevey\*  
*Hemiculter leuciscus* (Basilewsky)\*  
*Hypophthalmichthys harmandi* Sauvage\*  
*Labeo chrysophekadion* (Bleeker)\*  
*Labeo erythropterus* Cuvier and Valenciennes\*  
*Labeo molitorella* (Cuvier and Valenciennes)  
*Labeo ruoh* Tirant  
*Labeobarbus brevifilis* Peters  
*Labiobarbus lineatus* (Sauvage)  
*Labiobarbus spilopleura* (H.M. Smith)\*  
*Leptobarbus rubripinnis* (Fowler)  
*Lobocheilus pierrei* Sauvage  
*Luciobrama macrocephalus* (Lacépède)\*  
*Macrochirichthys macrochirus* (Cuvier and Valenciennes)\*  
*Megalobrama bramula* (Cuvier and Valenciennes)  
*Megalobrama terminalis* (Richardson)\*  
*Ochetobius elongatus* (Kner)\*  
*Onychostoma leptura* (Boulenger)\*  
*Onychostoma ovalis* Pellegrin and Chevey  
*Opsarichthys hainanensis* Nichols and Pope  
*Osteochilus barbatula* (Sauvage)  
*Osteochilus hasselti* (Cuvier and Valenciennes)\*  
*Osteochilus melanopterus* Tirant  
*Osteochilus schlegelii* (Bleeker)  
*Osteochilus spilopleura* Fowler  
*Osteochilus triporus* (Bleeker)  
*Oxygaster anomalurus* Van Hasselt\*  
*Parabramis bramula* (Cuvier and Valenciennes)\*  
*Paralaubuca typus* Bleeker\*  
*Probarbus jullieni* Sauvage\*  
*Pseudorasbora parva* (Temminck and Schlegel)\*
- Puntius altus* (Günther)\*  
*Puntius aureus* (Tirant)\*  
*Puntius binotatus* (Cuvier and Valenciennes)\*  
*Puntius brevis* (Bleeker)\*  
*Puntius chola* (Hamilton-Buchanan)\*  
*Puntius hainanensis* (Lohberger)\*

*Puntius javanicus* (Bleeker)\*  
*Puntius orphoides* (Cuvier and Valenciennes)\*  
*Puntius platysoma* (Bleeker)  
*Rasbora argyrotaenia* (Bleeker)  
*Rasbora daniconius* (Hamilton-Buchanan)  
*Rasbora paviei* Tirant  
*Rasboraichthys helfrichi* (Bleeker)  
*Sarcocheilichthys hainanensis* Nichols and Pope\*  
*Spinibarbus macracanthus* Pellegrin and Chevey  
*Squaliobarbus annamiticus* Tirant  
*Squaliobarbus curriculus* (Richardson)\*  
*Toxabramis houdemeri abbreviata* Pellegrin  
*Tylognathus fowleri* Pellegrin and Chevey  
  
*Varicorhinus dyocheilus* (McClelland)\*  
*Varicorhinus lemasoni* Pellegrin and Chevey  
*Xenoecheilichthys lofpei* Durand\*  
*Xenocypris nitidus* Garman\*

*Puntius laoensis* (Günther)  
*Puntius pierrei* Sauvage  
*Puntius strigatus* (Boulenger)  
*Rasbora aurotaenia* Tirant  
*Rasbora lateristriata* (Bleeker)  
*Rasbora reticulata* Weber and De Beaufort  
*Rasborinus lineatus* (Pellegrin)\*  
*Spinibarbus denticulatus* (Oshima)\*  
*Spinibarbus nigrodorsalis* Oshima\*  
*Squaliobarbus caudalis* Sauvage  
*Toxabramis houdemeri* Pellegrin  
*Tylognathus falcifer* (Cuvier and Valenciennes)\*  
*Tylognathus hispidus* (Cuvier and Valenciennes)  
*Varicorhinus graffeuilli* Pellegrin and Chevey\*  
*Varicorhinus tonkinensis* Pellegrin and Chevey\*  
*Xenocypris macrolepis* Bleeker  
*Zacco temminckii* (Temminck and Schlegel)\*

## 48. FAMILY GYRINOCHEILIDAE

*Gyrinocheilus ayonieri* (Tirant)

*Gyrinocheilus pennocki* (Fowler)\*

## 49. FAMILY HOMALOPTERIDAE

*Sinogastromyzon tonkinensis* Pellegrin and Chevey

*Swellia lineolata* (Cuvier and Valenciennes)\*

## 50. FAMILY COBITIDAE—LOACHES

*Acanthopsis choirorhynchus* (Bleeker)\*  
*Botia hymenophysa* (Bleeker)\*  
*Botia morleti* Tirant  
*Misgurnus fossilis anguillicaudatus* (Cantor)  
*Nemacheilus pulcher taeniata* Pellegrin and Chevey

*Barbatula toni fowleri* Nichols\*  
*Botia modesta* Bleeker\*  
*Cobitis taenia dolichorhynchus* Nichols\*  
*Misgurnus mizolepis* Günther  
*Nemacheilus spiloptera* (Cuvier and Valenciennes)

*Nemacheilus spiloptera nasifilis* Pellegrin

## 51. FAMILY BAGRIDAE—FRESHWATER CATFISH

*Bagroides macracanthus* Bleeker\*  
*Heterobagrus bocourti* Bleeker\*  
*Leiocassis poecilopterus* (Cuvier and Valenciennes)  
*Mystus chinensis* (Steindachner)\*  
*Mystus micracanthus* (Bleeker)\*  
*Mystus vittatus* (Bloch)\*  
*Mystus wycki* (Bleeker)\*  
*Pseudobagrus fulvidraco* (Richardson)\*  
*Pseudobagrus virgatus* (Oshima)\*

*Bagroides macropterus* Bleeker\*  
*Leiocassis albicollaris* Fowler\*  
*Leiocassis siamensis* Regan  
*Mystus gulio* (Hamilton-Buchanan)\*  
*Mystus nemurus* (Cuvier and Valenciennes)\*  
*Mystus wolffi* (Bleeker)\*  
*Pseudecheneis paviei* Vaillant  
*Pseudobagrus intermedius* Nichols and Pope\*

## 52. FAMILY SILURIDAE—FRESHWATER CATFISH

*Callichrous bimaculatus* (Bleeker)\*  
*Callichrous pabo* (Hamilton-Buchanan)  
*Cryptopterus apogon* (Bleeker)\*

*Cryptopterus cheveyi* Durand\*  
*Cryptopterus micronema* (Bleeker)  
*Parasilurus asotus* (Linnaeus)\*

*Callichrous macrophthalmus* Blyth\*  
*Cranoglanis sinensis* Peters\*  
*Cryptopterus bicirrhus* (Cuvier and Valenciennes)\*  
*Cryptopterus cryptopterus* (Bleeker)\*  
*Cryptopterus schilbeides* (Bleeker)\*  
*Parasilurus cochinchinensis* (Cuvier and Valenciennes)

*Penesilurus bokorensis* Pellegrin and Chevey  
*Wallago attu* (Bloch and Schneider)\*

*Silurodes hypophthalmus* (Bleeker)\*  
*Wallago leeri* Bleeker

### 53. FAMILY SCHILBEIDAE—SCHILBEID CATFISHES

*Helicophagus waandersi* Bleeker\*  
*Pangasius beani* H.M. Smith  
*Pangasius larnaudi* Bocourt\*  
*Pangasius micronema* Bleeker  
*Pangasius pangasius* (Hamilton-Buchanan)\*  
*Pangasius sutchi* Fowler\*  
*Pteropangasius cultratus* (H.M. Smith)\*

*Pangasius altifrons* Durand\*  
*Pangasius dezwaani* Weber and De Beaufort  
*Pangasius macronema* Bleeker\*  
*Pangasius nasutus* (Bleeker)\*  
*Pangasius polyuranodon* Bleeker\*  
*Pangasius taeniura* Fowler\*

### 54. FAMILY SISORIDAE

*Amblyceps mangois* (Hamilton-Buchanan)  
*Glyptosternon hainanensis* Nichols and Pope

*Bagarius bagarius* (Hamilton-Buchanan)  
*Pareuchiloglanis poilanei* Pellegrin

### 55. FAMILY CLARIIDAE—FRESHWATER CATFISH

*Clarias batrachus* (Linnaeus)\*  
*Clarias fuscus* (Lacépède)\*  
*Claria nsieuhofi* Cuvier and Valenciennes

*Clarias dussumieri* Cuvier and Valenciennes  
*Clarias melanoderma* Bleeker

### 56. FAMILY ARIIDAE—SEA CATFISH

*Arius caelatus* Cuvier and Valenciennes\*  
*Arius falcarius* Richardson  
*Arius macronotacanthus* Bleeker\*  
*Arius microcephalus* Bleeker\*  
*Arius stormi* (Bleeker)\*  
*Arius truncatus* Cuvier and Valenciennes\*  
*Arius venosus* Cuvier and Valenciennes\*  
*Hemipimelodus borneensis* (Bleeker)\*  
*Hemipimelodus daugueti* Chevey\*  
*Hemipimelodus siamensis* Sauvage\*  
*Osteogeneiosus militaris* (Linnaeus)

*Arius cochinchinensis* Günther  
*Arius leiotocephalus* Bleeker\*  
*Arius maculatus* (Thunberg)\*  
*Arius sagor* (Hamilton-Buchanan)\*  
*Arius thalassinus* (Rüppell)\*  
*Arius utik* Bleeker\*  
*Batracocephalus mimo* (Hamilton-Buchanan)\*  
*Hemipimelodus cochlearis* Fowler\*  
*Hemipimelodus macrocephalus* Bleeker\*  
*Ketengus typus* Bleeker\*

### 57. FAMILY PLOTOSIDAE—CATFISH EELS

*Paraplotosus albilabris* (Cuvier and Valenciennes)\*  
*Plotosus canius* Hamilton-Buchanan\*

*Plotosus anguillaris* (Bloch)\*

### 58. FAMILY BATRACHOIDIDAE—FROGFISH, TOADFISH

*Haplophryne gangene* (Hamilton-Buchanan)\*

### 59. FAMILY LOPHIIDAE—MONKFISH, ANGLERFISH

*Lophiomus setigerus* (Vahl)\*

### 60. FAMILY ANTENNARIIDAE—FISHING-FROGS

*Antennarius hispidus* (Bloch and Schneider)\*  
*Histrio histrio* (Linnaeus)\*

*Antennarius notophthalmus* Bleeker\*  
*Phrynelox striatus* (Shaw)\*

### 61. FAMILY OGOCEPHALIDAE—HANDFISH

*Halieutaea stellata* (Vahl)\*

*Malthopsis lutea* Alcock\*

### 62. FAMILY GADIDAE—CODFISH

*Bregmaceros maclellandi* Thompson\*

### 63. FAMILY BROTLIDAE

*Brotula maculata* Day\*  
*Neobythites macrops* Günther\*

*Brotula multibarbis* Temminck and Schlegel\*

### 64. FAMILY CARAPIDAE—PEARL FISH

*Carapus gracilis* (Bleeker)

*Carapus homei* (Ricardson)

## 65. FAMILY EXOCOETIDAE—FLYING FISH

- |  |  |
|--|--|
| <i>Cypselurus altipennis</i> (Cuvier and Valenciennes)*  | <i>Cypselurus articeps</i> (Günther)*                      |
| <i>Cypselurus atrisignis</i> Jenkins*                    | <i>Cypselurus bahiensis</i> (Ranzani)*                     |
| <i>Cypselurus brevis</i> (Weber and De Beaufort)*        | <i>Cypselurus opisthopus</i> (Bleeker)*                    |
| <i>Cypselurus oxycephalus</i> (Bleeker)*                 | <i>Cypselurus poecilopterus</i> (Cuvier and Valenciennes)* |
| <i>Cypselurus spilopterus</i> (Cuvier and Valenciennes)* | <i>Evolantia micropterus</i> (Cuvier and Valenciennes)*    |
| <i>Exocoetus volitans</i> Linnaeus                       | <i>Parexocoetus brachypterus</i> (Richardson)              |

## 66. FAMILY BELONIDAE—GARFISH, NEEDLEFISH

- |  |   |
|--|---|
| <i>Ablennes hians</i> (Cuvier and Valenciennes)  | <i>Strongylura incisa</i> (Cuvier and Valenciennes) |
| <i>Strongylura leiura</i> (Bleeker)*             | <i>Strongylura strongylura</i> (Van Hasselt)*       |
| <i>Tylosurus annamensis</i> (Chevey and Durand)* | <i>Tylosurus crocodilus</i> (Lesueur)*              |
| <i>Tylosurus melanotus</i> (Bleeker)*            | <i>Xenentodon canciloideus</i> (Bleeker)*           |

## 67. FAMILY HEMIRAMPHIDAE—HALF BEAKS

- |   |   |
|---|---|
| <i>Vemiramphus dussumieri</i> Cuvier and Valenciennes*  | <i>Hemiramphus far</i> (Forskål)*                       |
| <i>Vemiramphus gaimardi</i> Cuvier and Valenciennes*    | <i>Hemiramphus georgi</i> Cuvier and Valenciennes       |
| <i>Hemiramphus marginatus</i> (Forskål)*                | <i>Hemiramphus quoyi</i> Cuvier and Valenciennes*       |
| <i>Hemiramphus regularis</i> Günther                    | <i>Hemiramphus sinensis</i> Günther                     |
| <i>Hemiramphus xanthopterus</i> Cuvier and Valenciennes | <i>Zenarchopterus buffoni</i> (Cuvier and Valenciennes) |
| <i>Zenarchopterus dispar</i> (Cuvier and Valenciennes)  | <i>Zenarchopterus ectuntio</i> (Hamilton-Buchanan)*     |

## 68. FAMILY CYPRINODONTIDAE—KILLIFISHES

- |  |  |
|--|--|
| <i>Aplocheilichthys argyrotænia</i> (Tirant) | <i>Aplocheilichthys celebensis</i> Weber                 |
| <i>Aplocheilichthys javanicus</i> Bleeker    | <i>Aplocheilichthys timorensis</i> Weber and De Beaufort |
| <i>Cyprinodon calaritanus</i> (Bonelli)      | <i>Oryzias latipes</i> (Temminck and Schlegel)           |
| <i>Panchax panchax</i> (Hamilton-Buchanan)*  |  |

## 69. FAMILY ATHERINIDAE—SILVERSIDES

- |   |   |
|---|---|
| <i>Allanetta bleekeri</i> (Günther)       | <i>Allanetta forskali</i> (Rüppell)*                    |
| <i>Allanetta valenciennesi</i> (Bleeker)* | <i>Pranesus duodecemalis</i> (Cuvier and Valenciennes)* |
| <i>Pranesus pinguis</i> (Lacépède)        | <i>Stenatherina temminckii</i> (Bleeker)                |

## 70. FAMILY TRACHICHTHYIDAE

- Trachichthodes* sp.\*

## 71. FAMILY HOLOCENTRIDAE—SOLDIER FISH, SQUIRREL FISH

- |  |   |
|--|---|
| <i>Holocentrus caudimaculatus</i> Rüppell* | <i>Holocentrus cornutus</i> Bleeker*                  |
| <i>Holocentrus diadema</i> Lacépède*       | <i>Holocentrus ruber</i> (Forskål)*                   |
| <i>Holocentrus sammara</i> (Forskål)*      | <i>Myripristis hexagonus</i> (Lacépède)*              |
| <i>Myripristis kaianus</i> Günther*        | <i>Myripristis melanostictus</i> Bleeker*             |
| <i>Myripristis murdjan</i> (Forskål)       | <i>Myripristis pralinius</i> Cuvier and Valenciennes* |

## 72. FAMILY CAPROIDAE—BOAR FISH

- |                                       |                                       |
|---------------------------------------|---------------------------------------|
| <i>Antigonia macrodon</i> (Lacépède)* | <i>Antigonia rubescens</i> (Günther)* |
|---------------------------------------|---------------------------------------|

## 73. FAMILY VELIFERIDAE

- |                                 |  |
|---------------------------------|--|
| <i>Velifer africanus</i> Smith* | <i>Velifer hypsilopterus</i> (Bleeker) |
|---------------------------------|--|

## 74. FAMILY AULOSTOMIDAE—CORNET FISH

- Aulostomus chinensis* (Linnaeus)

## 75. FAMILY FISTULARIIDAE—FLUTE MOUTHS, TRUMPET FISH

- |                                     |                                       |
|-------------------------------------|---------------------------------------|
| <i>Fistularia petimba</i> Lacépède* | <i>Fistularia villosa</i> Klunzinger* |
|-------------------------------------|---------------------------------------|

## 76. FAMILY CENTRISCIDAE—RAZOR FISH

- |                                       |                                      |
|---------------------------------------|--------------------------------------|
| <i>Aeoliscus strigatus</i> (Günther)* | <i>Centriscus scutatus</i> Linnaeus* |
|---------------------------------------|--------------------------------------|
77. FAMILY SYNGNATHIDAE—PIPE FISH, SEA HORSES
- |   |   |
|---|---|
| <i>Bombonia spicifer</i> (Rüppell)        | <i>Corythoichthys fasciatus</i> (Gray)                |
| <i>Hippocampus borboniensis</i> Dumeril   | <i>Hippocampus histrix</i> Kaup*                      |
| <i>Hippocampus kuda</i> Bleeker*          | <i>Hippocampus takakurai</i> Tanaka*                  |
| <i>Hippocampus trimaculatus</i> Leach*    | <i>Ichthyocampus carce</i> (Hamilton-Buchanan)        |
| <i>Oostethus brachyurus</i> (Bleeker)     | <i>Oostethus deokhatoides</i> (Bleeker)               |
| <i>Syngnathoides biaculeatus</i> (Bloch)* | <i>Syngnathus cyanospilus</i> Bleeker                 |
| <i>Syngnathus schlegeli</i> Kaup*         | <i>Trachyramphus serratus</i> (Temminck and Schlegel) |
| <i>Yozia bicoarctata</i> (Bleeker)*       | <i>Yozia longirostris</i> (Kaup)                      |

## 78. FAMILY CHANNIDAE—SNAKE HEADS

- |                                     |  |
|-------------------------------------|--|
| <i>Channa asiatica</i> (Linnaeus)*  | <i>Channa lucius</i> (Cuvier and Valenciennes)*      |
| <i>Channa melanoptera</i> (Bleeker) | <i>Channa micropeltes</i> (Cuvier and Valenciennes)* |
| <i>Channa siamensis</i> (Günther)*  | <i>Channa gachua</i> (Hamilton-Buchanan)             |
| <i>Channa maculata</i> (Lacépède)*  | <i>Channa striatus</i> (Bloch)*                      |

## 79. FAMILY FLUTIDAE—RICE FIELD EELS

- |                            |  |
|----------------------------|--|
| <i>Fluta alba</i> (Zuiew)* | <i>Synbranchus bengalensis</i> (McClelland)* |
|----------------------------|--|

## 80. FAMILY SCORPAENIDAE—SCORPION FISH

- |  |   |
|--|---|
| <i>Amblyapistus binotatus</i> Peters                       | <i>Amblyapistus macracanthus</i> (Bleeker)*                   |
| <i>Amblyapistus taenianotus</i> (Cuvier and Valenciennes)* | <i>Apistus carinatus</i> (Bloch and Schneider)*               |
| <i>Brachirus zebra</i> (Quoy and Gaimard)*                 | <i>Brachypterois serrulifer</i> Fowler*                       |
| <i>Paracentropogon indicus</i> (Day)*                      | <i>Paracentropogon longispinis</i> (Cuvier and Valenciennes)* |
| <i>Paracentropogon profundus</i> J.L.B. Smith*             | <i>Parascorpaena armata</i> (Sauvage)*                        |
| <i>Parascorpaena bandanensis</i> (Bleeker)*                | <i>Parascorpaena picta</i> (Cuvier and Valenciennes)          |
| <i>Pterois lunulata</i> Temminck and Schlegel*             | <i>Pterois volitans</i> (Linnaeus)*                           |
| <i>Scorpaenodes guamensis</i> (Quoy and Gaimard)*          | <i>Scorpaenopsis cirrhosa</i> (Thunberg)*                     |
| <i>Scorpaenopsis gibbosa</i> (Bloch and Schneider)         | <i>Scorpaenopsis leonina</i> (Richardson)                     |
| <i>Sebastodes fuscescens</i> (Houttuyn)*                   | <i>Vespacula trachinoides</i> (Cuvier and Valenciennes)       |

## 81. FAMILY TRIGLIDAE—GURNARDS

- |  |  |
|--|--|
| <i>Lepidotrigla guentheri</i> Hilgendorf | <i>Lepidotrigla microptera</i> Günther |
|--|--|

## 82. FAMILY PERISTEDIIDAE

- |  |                                       |
|--|---------------------------------------|
| <i>Peristedion amicus</i> Jordan and Starks* | <i>Satyrichthys clavilapis</i> Fowler |
|--|---------------------------------------|

## 83. FAMILY SYNANCEJIDAE—STONEFISH

- |  |  |
|--|--|
| <i>Choridactylus multibarbis</i> Richardson    | <i>Erosa erosa</i> (Langsdorf)                       |
| <i>Inimicus cuvieri</i> (Gray)*                | <i>Inimicus didactylus</i> (Pallas)*                 |
| <i>Leptosynancea asteroblepa</i> (Richardson)* | <i>Minous monodactylus</i> (Bloch and Schneider)*    |
| <i>Minous oxycephalus</i> Bleeker              | <i>Minous trachycephalus</i> (Bleeker)*              |
| <i>Peloropsis frondosus</i> (Günther)*         | <i>Peloropsis uranoscopus</i> (Bloch and Schneider)* |
| <i>Synanceja horrida</i> (Linnaeus)*           |  |

## 84. FAMILY PLATYCEPHALIDAE—FLATHEADS

- |  |   |
|--|---|
| <i>Elates ransonneti</i> (Steindachner)* | <i>Rogadius asper</i> (Cuvier and Valenciennes)*            |
| <i>Platycephalus indicus</i> (Linnaeus)* | <i>Thysanophrys carbunculus</i> (Cuvier and Valenciennes)   |
| <i>Thysanophrys japonicus</i> (Tilesius) | <i>Thysanophrys pristiger</i> (Cuvier and Valenciennes)*    |
| <i>Thysanophrys scaber</i> (Linnaeus)*   | <i>Thysanophrys tuberculatus</i> (Cuvier and Valenciennes)* |

## 85. FAMILY DACTYLOPTERIDAE—FLYING GURANARDS

*Dactyloptena orientalis* (Cuvier and Valenciennes)\*

## 86. FAMILY PEGASIDAE—DRAGON FISH

*Pegasus draconis* Linnaeus*Pegasus natans* Linnaeus\**Pegasus volitans* Linnaeus

## 87. FAMILY AMBASSIDAE—GLASSY PERCHLETS

*Ambassis commersoni* Cuvier and Valenciennes*Ambassis gymnocephalus* (Lacépède)\**Ambassis kopsi* Bleeker\**Ambassis ranga* (Hamilton-Buchanan)\**Ambassis thomassi* Day\**Ambassis wolffi* Bleeker\*

## 88. FAMILY SERRANIDAE—ROCK CODS, GROUPERS

*Caprodon schlegeli* (Günther)\**Cephalopholis argus* Bloch and Schneider\**Cephalopholis boenack* (Bloch)\**Cephalopholis leopardus* (Lacépède)\**Cephalopholis miniatus* (Forskål)\**Cephalopholis pachycentron* (Cuvier and Valenciennes)\**Cephalopholis rogae* (Forskål)\**Cephalopholis sonnerati* (Cuvier and Valenciennes)*Cephalopholis urodelus* (Bloch and Schneider)*Chelidoperca margaritifera* Weber\**Coreoperca whiteheadi* Boulenger\**Cromileptes altivelis* (Cuvier and Valenciennes)\**Diploprion bifasciatus* Cuvier and Valenciennes\**Epinephelus akaara* (Temminck and Schlegel)*Epinephelus amblycephalus* (Bleeker)*Epinephelus areolatus* (Forskål)\**Epinephelus awoara* (Temminck and Schlegel)\**Epinephelus bleekeri* (Vaillant and Bocourt)\**Epinephelus bontoides* (Bleeker)\**Epinephelus chlorostigma* (Cuvier and Valenciennes)\**Epinephelus cometae* Tanaka\**Epinephelus corallicola* (Cuvier and Valenciennes)\**Epinephelus diacanthus* (Cuvier and Valenciennes)\**Epinephelus elongatus* Schultz\**Epinephelus epistictus* (Temminck and Schlegel)*Epinephelus fario* (Thunberg)\**Epinephelus fasciatomaculatus* (Peters)\**Epinephelus fasciatus* (Forskål)\**Epinephelus flavocaeruleus* (Lacépède)*Epinephelus fuscoguttatus* (Forskål)*Epinephelus bata* Katayama*Epinephelus hoedti* (Bleeker)\**Epinephelus kohleri* Schultz*Epinephelus latifasciatus* (Temminck and Schlegel)*Epinephelus maculatus* (Bloch)*Epinephelus megachir* (Richardson)\**Epinephelus merra* Bloch\**Epinephelus morrhua* (Cuvier and Valenciennes)\**Epinephelus nigropunctatus* Fourmanoir\**Epinephelus punctatus* Fourmanoir\**Epinephelus rhyncolepis* (Bleeker)\**Epinephelus exfasciatus* (Cuvier and Valenciennes)\**Epinephelus summana* (Forskål)\**Epinephelus tauvina* (Forskål)\**Epinephelus xanthopunctatus* Fourmanoir\**Grammistes sexlineatus* (Thunberg)\**Lateolabrax japonicus* (Cuvier and Valenciennes)\**Lates calcarifer* (Bloch)\**Plectropomus leopardus* (Lacépède)*Plectropomus maculatus* (Bloch)\**Plectropomus truncatus* Fowler and Bean\**Psammoperca waigiensis* (Cuvier and Valenciennes)\**Pseudanthias elongatus* (Franz)\**Siniperca chuatsi* Basilewsky\**Siniperca kwangsiensis* Chong\**Tosana niwai* Smith and Pope*Trisopterus dermopterus* (Temminck and Schlegel)

## 89. FAMILY PSEUDOCROMIDAE—DOTTYBACKS

*Dampiera melanotaenia* (Bleeker)\**Pseudochromis fuscus* Müller and Troschel*Pseudochromis tapeinosoma* Bleeker

## 90. FAMILY PLESIOPIDAE—ROUND-HEADS

*Plesiops altivelis* Steindachner*Plesiops nigricans* (Rüppell)\*

## 91. FAMILY GLAUCOSOMIDAE

*Glaucosoma burgeri* Richardson\*

## 92. FAMILY THERAPONIDAE—GRUNTERS, CROAKERS

*Helotes sexlineatus* (Quoy and Gaimard)\**Pelates quadrilineatus* (Bloch)*Therapon jarbua* (Forskål)\**Therapon puta* Cuvier and Valenciennes\**Therapon theraps* Cuvier and Valenciennes\*

## 93. FAMILY BANJOSIDAE

*Banjos banjos* (Richardson)

## 94. FAMILY KUHLIDAE—FLAGTAILS

*Kuhlia taeniura* (Cuvier and Valenciennes)\*

## 95. FAMILY CENTRARCHIDAE—FRESHWATER BASS

*Micropterus dolomieu* Lacépède (Introduced)

## 96. FAMILY PRIACANTHIDAE—BULLSEYES

*Priacanthus cruentatus* (Lacépède)\**Priacanthus macracanthus* Cuvier and Valenciennes\**Priacanthus tayenus* Richardson\**Pseudopriacanthus niphonius* (Cuvier and Valenciennes)\*

## 97. FAMILY APOGONIDAE—CARDINAL FISH

*Apogon aureus* (Lacépède)\**Apogon bandanensis* Bleeker\**Apogon chrysopomus* Bleeker\**Apogon chrysotaenia* Bleeker\**Apogon compressus* (Smith and Radcliffe)\**Apogon cyanosoma* Bleeker\**Apogon dieneaeus* (Smith and Radcliffe)\**Apogon doederleini* Jordan and Snyder\**Apogon enneastigma* Rüppell*Apogon fasciatus* White\**Apogon frenatus* Valenciennes\**Apogon fuscus* Quoy and Gaimard\**Apogon hartzfeldi* Bleeker\**Apogon hyalosoma* Bleeker*Apogon lineatus* Temminck and Schlegel\**Apogon marginatus* Döderlein*Apogon melas* Bleeker\**Apogon moluccensis* Valenciennes\**Apogon nigripinnis* Cuvier and Valenciennes\**Apogon novemfasciatus* Cuvier and Valenciennes\**Apogon quadrifasciatus* Cuvier and Valenciennes*Apogon semilineatus* Temminck and Schlegel\**Apogon septemstriatus* Günther\**Apogon trimaculatus* Cuvier and Valenciennes*Apogonichthys auritus* (Cuvier and Valenciennes)\**Apogonichthys ellioti* Day\**Apogonichthys poecilopterus* (Cuvier and Valenciennes)\**Archamia lineolata* (Cuvier and Valenciennes)\**Archamia zosteropora* (Bleeker)\**Cheilodipterus macrodon* (Lacépède)\**Cheilodipterus quinquelineatus* Cuvier and Valenciennes*Cheilodipterus singapurensis* Bleeker\**Jaydia hungi* Fourmanoir\**Rhabdamia gracilis* (Bleeker)\*

## 98. FAMILY ACROPOMATIDAE

*Acropoma japonicum* Günther\*

## 99. FAMILY SILLAGINIDAE—WHITING

*Sillago boutani* Pellegrin*Sillago maculata* Quoy and Gaimard\**Sillago sihama* (Forskål)\*

## 100. FAMILY BRANCHIOSTEGIDAE—TILE FISH

*Branchiostegus japonicus* (Houttuyn)\**Branchiostegus sericeus* Herre*Branchiostegus tollardi* (Chabanaud)\**Hoplolatilus fourmanoiri* J.L.B. Smith

## 101. FAMILY MALACANTHIDAE—FALSE WHITING

*Malacanthus hoedti* Bleeker\*

## 102. FAMILY LACTARIIDAE—WHITEFISH

*Lactarius lactarius* (Bloch and Schneider)\*

## 103. FAMILY RACHYCENTRIDAE—BLACK KINGFISH

*Rachycentron canadus* (Linnaeus)\*

## 104. FAMILY ECHENEIDAE—SUCKERFISH, REMORAS

*Echeneis naucrates* Linnaeus\**Remorina albescens* Temminck and Schlegel\*

## 105. FAMILY CARANGIDAE—JACKS, HORSE MACKERELS

*Alectis ciliaris* (Bloch)\**Alectis indicus* (Rüppell)\**Atropus atropus* (Bloch and Schneider)\**Atule djedaba* (Forskål)\**Atule kalla* (Cuvier and Valenciennes)\**Atule macrurus* Bleeker*Atule malam* (Bleeker)\**Atule mate* (Cuvier and Valenciennes)\**Caranx armatus* (Forskål)\**Caranx chrysophrys* Cuvier and Valenciennes\**Caranx ferdau* (Forskål)\**Caranx fulvoguttatus* (Forskål)*Caranx ignobilis* (Forskål)*Caranx malabaricus* (Bloch and Schneider)\**Caranx praestus* Bennett\**Chorinemus lysan* (Forskål)\**Chorinemus sanctipetri* Cuvier and Valenciennes*Chorinemus tala* Cuvier and Valenciennes\**Chorinemus tol* Cuvier and Valenciennes\**Chorinemus toloparah* (Rüppell)\**Decapterus lajang* Bleeker\**Decapterus russelli* (Rüppell)\**Elagatis bipinnulatus* (Quoy and Gaimard)\**Gnathodon speciosus* (Forskål)\**Megalaspis cordyla* (Linnaeus)\**Selar boops* (Cuvier and Valenciennes)\**Selar crumenophthalmus* (Bloch)\**Selaroides leptolepis* (Cuvier and Valenciennes)\**Seriola dumeril* (Risso)*Seriola purpurascens* Temminck and Schlegel*Trachinotus bailloni* (Lacépède)\**Trachinotus blochi* (Lacépède)*Ulula mandibularis* (Macleay)\**Uraspis helvola* (Bloch and Schneider)*Zonichthys nigrofasciatus* (Rüppell)\*

## 106. FAMILY FORMIONIDAE

*Formio niger* (Bloch)

## 107. FAMILY CORYPHAENIDAE—DOLPHINS

*Coryphaena hippurus* Linnaeus\*

## 108. FAMILY MENIDAE—MOONFISH

*Mene maculata* (Bloch and Schneider)\*

## 109. FAMILY LEIOGNATHIDAE—PONY FISH

*Gazza minuta* (Bloch)\**Leiognathus berbis* (Cuvier and Valenciennes)\**Leiognathus brevirostris* (Cuvier and Valenciennes)\**Leiognathus equulus* (Forskål)\**Leiognathus fasciatus* (Lacépède)\**Leiognathus insidiator* (Bloch)\**Leiognathus ruconius* (Hamilton-Buchanan)\**Leiognathus splendens* (Cuvier)\*

## 110. FAMILY INERMIIDAE—RED BAIT

*Dipterygnotus gruweli* Chabanaud\**Dipterygnotus leucogrammicus* Bleeker\*

## 111. FAMILY CAESIONIDAE

*Caesio chryzozonus* Cuvier and Valenciennes\**Caesio coerulaureus* Lacépède*Caesio cuning* (Bloch)*Caesio diagramma* Bleeker\**Caesio lunaris* Cuvier and Valenciennes*Caesio pulcherriumus* Smith\**Caesio xanthonotus* Bleeker*Mirolabrichthys tuka* Herre\**Paracaesio xanthurus* (Bleeker)*Pinjalo pinjalo* Bleeker\**Pterocaesio tile* (Cuvier and Valenciennes)

## 112. FAMILY LUTJANIDAE—SNAPPERS

*Lutjanus argentimaculatus* (Forskål)\**Lutjanus biguttatus* (Cuvier and Valenciennes)\**Lutjanus bohar* (Forskål)\**Lutjanus chrysotaenia* (Bleeker)\*



*Lutjanus decussatus* (Cuvier and Valenciennes)\*

*Lutjanus ehrenbegi* (Peters)\*

*Lutjanus gibbus* (Forskål)\*

*Lutjanus johni* (Bloch)\*

*Lutjanus lemmiscatus* (Cuvier and Valenciennes)

*Lutjanus lutjanus* Bloch\*

*Lutjanus monostigma* (Cuvier and Valenciennes)\*

*Lutjanus rivulatus* (Cuvier)\*

*Lutjanus russelli* (Bleeker)\*

*Lutjanus sebae* (Cuvier and Valenciennes)\*

*Lutjanus vaigiensis* (Quoy and Gaimard)\*

*Macolor niger* (Forskål)\*

*Lutjanus duodecimlineatus* (Cuvier and Valenciennes)\*

*Lutjanus fulviflamma* (Forskål)\*

*Lutjanus janthinuropterus* (Bleeker)

*Lutjanus kasmira* (Forskål)\*

*Lutjanus lineolatus* (Rüppell)\*

*Lutjanus malabaricus* (Bloch and Schneider)\*

*Lutjanus nematophorus* (Bleeker)\*

*Lutjanus rufolineatus* (Cuvier and Valenciennes)

*Lutjanus sanguineus* (Cuvier and Valenciennes)\*

*Lutjanus spilurus* (Bennett)\*

*Lutjanus vitta* (Quoy and Gaimard)\*

### 113. FAMILY ETELIDAE

*Aprion virescens* Cuvier and Valenciennes\*

*Pristipomoides filamentosus* (Cuvier and Valenciennes)\*

*Pristipomoides typus* Bleeker\*

*Etelis carbunculus* (Cuvier and Valenciennes)\*

*Pristipomoides sieboldi* (Bleeker)

### 114. FAMILY NEMIPTERIDAE—THREADFIN BREAM

*Nemipterus bleekeri* (Day)\*

*Nemipterus japonicus* (Bloch)\*

*Nemipterus oveni* (Bleeker)\*

*Nemipterus upenoides* (Bleeker)\*

*Pentapodus nemurus* (Bleeker)

*Scolopsis bilineatus* (Bloch)\*

*Nemipterus hexodon* (Quoy and Gaimard)\*

*Nemipterus nemurus* (Bleeker)

*Nemipterus tolu* (Cuvier and Valenciennes)\*

*Nemipterus virgatus* (Houttuyn)\*

*Pentapodus setosus* (Cuvier and Valenciennes)

*Scolopsis cancellatus* (Cuvier and Valenciennes)\*

*Scolopsis dubiosus* Weber\*

*Scolopsis margaritifera* (Cuvier and Valenciennes)\*

*Scolopsis personatus* (Cuvier and Valenciennes)

*Scolopsis vosmersi* (Bloch)\*

*Symphorus spilurus* Günther\*

*Scolopsis ciliatus* (Lacépède)\*

*Scolopsis inermis* (Temminck and Schlegel)\*

*Scolopsis monogramma* (Cuvier and Valenciennes)\*

*Scolopsis taeniopterus* (Cuvier and Valenciennes)\*

*Scolopsis xenochrous* Günther\*

### 115. FAMILY LOBOTIDAE—TRIPLE TAILS

*Datnioides quadrfasciatus* (Sevastianov)\*

*Lobotes surinamensis* (Bloch)\*

### 116. FAMILY GERRIDAE—SILVER BIDDIES

*Gerres abbreviatus* Bleeker\*

*Gerres filamentosus* Cuvier\*

*Gerres macracanthus* Bleeker\*

*Gerres oyena* (Forskål)\*

*Pentaprion longimanus* (Cantor)\*

*Gerres acinaces* Bleeker\*

*Gerres lucidus* Cuvier and Valenciennes

*Gerres macrosoma* Bleeker\*

*Gerres setifer* Hamilton-Buchanan\*

### 117. FAMILY POMADASIDAE—GRUNTERS

*Hapalogenys kishinouyei* Smith and Pope

*Hapalogenys mucronatus* (Eydoux and Souleyet)\*

*Gaterin celebicus* (Bleeker)\*

*Gaterin chrysotaenia* (Bleeker)\*

*Gaterin lineatus* (Cuvier and Valenciennes)\*

*Gaterin pictus* (Thunberg)

*Gaterin shotaf* (Forskål)

*Gaterin chaetodontoides* (Lacépède)\*

*Gaterin cinctus* (Temminck and Schlegel)

*Gaterin niger* (Cuvier and Valenciennes)\*

*Gaterin punctatissimus* (Playfair)

*Pomadasys argenteus* (Forskål)

*Pomadasys argyreus* (Cuvier and Valenciennes)\*  
*Pomadasys hasta* (Bloch)\*

*Pomadasys auritus* (Cuvier and Valenciennes)  
*Pomadasys maculatus* (Bloch)\*

## 118. FAMILY LETHRINIDAE—RUDDER FISH

*Gnathodentex aurolineatus* (Lacépède)

*Gymnocranius griseus* (Temminck and Schlegel)

*Lethrinus leutjanus* (Lacépède)\*

*Lethrinus mahsena* (Forskål)\*

*Lethrinus miniatus* (Bloch and Schneider)\*

*Lethrinus nebulosus* (Forskål)\*

*Lethrinus ornatus* Cuvier and Valenciennes\*

*Lethrinus ramak* (Forskål)\*

*Lethrinus reticulatus* Cuvier and Valenciennes

*Lethrinus rhodopterus* Bleeker\*

*Monotaxis grandoculis* (Forskål)\*

## 119. FAMILY SPARIDAE—PORGIES, SEABREAMS

*Acanthopagrus berda* (Forskål)\*

*Acanthopagrus cuvieri* (Day)\*

*Acanthopagrus latus* (Houttuyn)

*Argyrops spinifer* (Forskål)\*

*Dentex spariformis* (Ogilby)\*

*Dentex tumifrons* (Temminck and Schlegel)\*

*Pagrus major* (Temminck and Schlegel)\*

*Sparus rubropterus* (Tirant)

*Sparus sarba* Forskål

## 120. FAMILY SCIAENIDAE—DRUMS

*Johnius belengeri* (Cuvier and Valenciennes)\*

*Johnius carutta* Bloch\*

*Johnius cujus* (Hamilton-Buchanan)

*Johnius dussumieri* (Cuvier and Valenciennes)\*

*Johnius ophiceps* (Alcock)\*

*Johnius trachycephalus* (Bleeker)\*

*Otolithes argenteus* (Cuvier and Valenciennes)\*

*Otolithes maculatus* (Cuvier and Valenciennes)\*

*Otolithes ruber* (Bloch and Schneider)\*

*Otolithoides biauritus* (Cantor)\*

*Otolithoides microdon* (Bleeker)

*Pama pama* (Hamilton-Buchanan)

*Pseudosciaena amblyiceps* Bleeker

*Pseudosciaena aneus* (Bloch)\*

*Pseudosciaena axillaris* (Cuvier and Valenciennes)\*

*Pseudosciaena birtwistlei* (Fowler)\*

*Pseudosciaena coibor* (Hamilton-Buchanan)

*Pseudosciaena diacanthus* (Lacépède)\*

*Pseudosciaena goldmanni* (Bleeker)

*Pseudosciaena polykladiskos* (Bleeker)\*

*Pseudosciaena sina* (Cuvier and Valenciennes)\*

*Pseudosciaena soldado* (Lacépède)\*

*Sciaena russelli* (Cuvier and Valenciennes)

## 121. FAMILY MULLIDAE—RED MULLET, GOATFISH

*Mulloidichthys auriflamma* (Forskål)\*

*Mulloidichthys samoensis* (Günther)\*

*Mulloidichthys vanicolensis* (Cuvier and Valenciennes)

*Parupeneus auranus* Fourmanoir\*

*Parupeneus barberinoides* (Bleeker)\*

*Parupeneus barberinus* (Lacépède)\*

*Parupeneus bifasciatus* (Lacépède)\*

*Parupeneus chryserydros* (Lacépède)\*

*Parupeneus chrysopleuron* (Temminck and Schlegel)\*

*Parupeneus dispilurus* (Playfair)\*

*Parupeneus indicus* (Shaw)\*

*Parupeneus malabaricus* (Cuvier and Valenciennes)\*

*Parupeneus pleurospilus* (Bleeker)\*

*Parupeneus pleurostigma* (Bennett)\*

*Parupeneus porphyreus* (Jenkins)

*Parupeneus trifasciatus* (Lacépède)\*

*Upeneus bensasi* (Temminck and Schlegel)

*Upeneus luzonius* Jordan and Seale

*Upeneus moluccensis* (Bleeker)\*

*Upeneus sulphureus* Cuvier and Valenciennes\*

*Upeneus sundaicus* (Bleeker)

*Upeneus tragula* Richardson\*

*Upeneus vittatus* (Forskål)

## 122. FAMILY MONODACTYLIDAE—SILVER BATFISH

*Monodactylus argenteus* (Linnaeus)\*

*Monodactylus falciformis* Lacépède\*

## 123. FAMILY PEMPHERIDAE—SWEEPERS

*Parapriacanthus uwini* (Ogilby)\*

*Pempheris moluca* Cuvier and Valenciennes

*Pempheris oualensis* Cuvier and Valenciennes\*

*Pempheris vanicolensis* Cuvier and Valenciennes\*

## 124. FAMILY TOXOTIDAE—ARCHER FISH

*Toxotes chatareus* (Hamilton-Buchanan)\**Toxotes jaculator* (Pallas)\**Toxotes microlepis* Günther\*

## 125. FAMILY KHYPHOSIDAE—SEA CHUBS, RUDDERFISH

*Khyphosus cinerascens* (Forskål)*Khyphosus lembus* (Cuvier and Valenciennes)

## 126. FAMILY GIRELLIDAE

*Protheracanthus sarissophorus* (Cantor)\*

## 127. FAMILY EPHIPPIDAE—SPADEFISH

*Ephippus orbis* (Bloch)\*

## 128. FAMILY PLATACIDAE—BATFISH

*Platax orbicularis* (Forskål)\*

## 129. FAMILY DREPANIDAE—SICKLE FISH

*Drepane punctata* (Linnaeus)\*

## 130. FAMILY SCATOPHAGIDAE—BUTTERFISH

*Scatophagus argus* (Linnaeus)\*

## 131. FAMILY CHAETODONTIDAE—BUTTERFLY FISH

*Apolemichthys trimaculatus* (Cuvier and Valenciennes)*Centropyge tibicen* (Cuvier and Valenciennes)\**Centropyge vroliki* (Bleeker)\**Chaetodon auriga* Forskål\**Chaetodon bellamaris* Seale\**Chaetodon bennetti* Cuvier and Valenciennes\**Chaetodon chrysurus* Desjardins\**Chaetodon citrinellus* Cuvier and Valenciennes\**Chaetodon collare* Bloch\**Chaetodon lineolatus* Cuvier and Valenciennes\**Chaetodon melanotus* Bloch and Schneider*Chaetodon mertensi* Cuvier and Valenciennes\**Chaetodon octofasciatus* Bloch\**Chaetodon ornatissimus* Cuvier and

Valenciennes\*

*Chaetodon punctatofasciatus* Cuvier and Valenciennes\**Chaetodon speculum* Cuvier and Valenciennes*Chaetodon strigangulus* Gmelin*Chaetodon triangulum* Cuvier and

Valenciennes\*

*Chaetodon trifasciatus* Mungo Park*Chaetodon unimaculatus* Bloch\**Chaetodon vagabundus* Linnaeus\**Chaetodon zanzibarensis* Playfair\**Chaetodontoplus mesoleucus* (Bloch)\**Chaetodontoplus septentrionalis* (Temminck

and Schlegel)\*

*Chelmon rostratus* (Linnaeus)\**Coradion altivelis* McCulloch\**Coradion chrysozonus* (Cuvier and Valenciennes)\**Euxiphichthys sexstriatus* (Cuvier and

Valenciennes)

*Forcipiger longirostris* (Broussonet)*Genicanthus lamarcki* (Lacépède)*Heniochus acuminatus* (Linnaeus)\**Heniochus monoceros* Cuvier and Valenciennes\**Heniochus permutatus* Cuvier and Valenciennes\**Parachaetodon ocellatus* (Cuvier and

Valenciennes)\*

*Pomacanthodes annularis* (Bloch)\**Pomacanthodes imperator* (Bloch)\**Pomacanthodes semicirculatus* (Cuvier and*Pygoplites diacanthus* (Boddaert)

Valenciennes)\*

## 132. FAMILY NANDIDAE—LEAF FISH

*Nandus nebulosus* (Gray)\**Pristolepis fasciatus* (Bleeker)\*

## 133. FAMILY CICHLIDAE—CICHLIDS

*Tilapia mossambica* (Peters)

## 134. FAMILY POMACENTRIDAE—CORAL REEF FISH, DEMOISELLES

*Abudefduf aureus* (Cuvier and Valenciennes)*Abudefduf bankieri* (Richardson)\**Abudefduf bengalensis* (Bloch)\**Abudefduf coelestinus* (Cuvier and

Valenciennes)\*

*Abudefduf curacao* (Bloch)\*  
*Abudefduf filifer* (Weber)\*  
*Abudefduf leucogaster* (Bleeker)  
*Abudefduf vaigiensis* (Quoy and Gaimard)\*  
*Amphiprion ephippium* (Bloch)\*  
*Amphiprion polymnus* (Linnaeus)\*  
*Chromis bitaeniatus* Fowler and Bean\*  
*Chromis dimidiatus* (Klunzinger)\*  
*Chromis weberi* Fowler and Bean\*  
*Chromis xanthurus* (Bleeker)\*  
*Chrysiptera cyanea* (Quoy and Gaimard)\*  
*Chrysiptera xanthonota* (Bleeker)\*  
*Dascyllus marginatus* Rüppell\*  
*Daya jerdoni* (Day)\*  
*Pomacentrus coelestis* Jordan and Starks  
*Pomacentrus fasciatus* Cuvier and Valenciennes

*Pomacentrus moluccensis* Bleeker\*  
*Pomacentrus nigromanus* Weber\*

*Pomacentrus prosopotaenia* Bleeker\*  
*Pomacentrus sulphureus* Klunzinger  
*Pomacentrus tripunctatus* Cuvier and Valenciennes  
*Pomacentrus violascens* (Bleeker)\*

## 135. FAMILY CIRRHITIDAE—CURLYFINS

*Cirrhitichthys aureus* (Temminck and Schlegel)\*  
*Cyprinocirrhites polyactis* (Bleeker)\*

*Abudefduf dicki* (Liénard)\*  
*Abudefduf lacrymatus* (Quoy and Gaimard)\*  
*Abudefduf richardsoni* Snyder  
*Amphiprion bicinctus* Rüppell\*  
*Amphiprion melanopus* Bleeker\*  
*Amphiprion sebae* Bleeker\*  
*Chromis caeruleus* (Cuvier and Valenciennes)\*  
*Chromis lepidolepis* Bleeker\*  
*Chromis xanthochir* (Bleeker)  
*Chrysiptera behni* (Bleeker)\*  
*Chrysiptera melas* (Cuvier and Valenciennes)\*  
*Dascyllus aruanus* (Linnaeus)  
*Dascyllus trimaculatus* (Rüppell)\*  
*Pomacentrus bifasciatus* Bleeker  
*Pomacentrus cyanomos* Bleeker\*  
*Pomacentrus littoralis* Cuvier and Valenciennes\*  
*Pomacentrus nigricans* (Lacépède)\*  
*Pomacentrus perspicillatus* Cuvier and Valenciennes  
*Pomacentrus pulcherrimus* J.L.B. Smith\*  
*Pomacentrus taeniurus* Bleeker\*  
*Pomacentrus vaiuli* Jordan and Seale\*

## 136. FAMILY CEPOLIDAE—SNAKEFISHES

*Acanthocephala abbreviata* (Cuvier and Valenciennes)\*  
*Acanthocephala krusenstermi* (Schlegel)

*Acanthocephala cuneata* Smith\*  
*Acanthocephala mesoprion* (Bleeker)

## 137. FAMILY MUGILIDAE—GRAY MULLET

*Crenimugil crenilabis* (Forskål)\*  
*Liza ceylonensis* (Günther)\*  
*Liza macrolepis* (Smith)\*  
*Liza oligolepis* (Bleeker)\*  
*Liza seheli* (Forskål)\*  
*Mugil affinis* Günther\*  
*Mugil cephalus* Linnaeus\*  
*Mugil dussumieri* Cuvier and Valenciennes\*  
*Mugil longimanus* Günther\*  
*Mugil speigleri* Bleeker\*  
*Mugil tade* Forskål\*

*Liza caeruleomaculatus* (Lacépède)\*  
*Liza heterochilus* (Bleeker)\*  
*Liza melinoptera* (Cuvier and Valenciennes)\*  
*Liza olivaceus* (Day)  
*Liza vaigiensis* (Quoy and Gaimard)\*  
*Mugil borneensis* Bleeker\*  
*Mugil cumesius* Cuvier and Valenciennes  
*Mugil kelaarti* Günther  
*Mugil planiceps* Cuvier and Valenciennes  
*Mugil strongylocephalus* Richardson

## 138. FAMILY SPHYRAENIDAE—BARRACUDA

*Sphyraena acutipinnis* Day\*  
*Sphyraena brachygnathus* Bleeker\*  
*Sphyraena fosteri* Cuvier and Valenciennes  
*Sphyraena langsar* Bleeker\*

*Sphyraena barracuda* (Walbaum)\*  
*Sphyraena chrysotaenia* Klunzinger\*  
*Sphyraena jello* Cuvier and Valenciennes\*  
*Sphyraena obtusata* Cuvier and Valenciennes\*

## 139. FAMILY POLYNEMIDAE—TASSEL FISH

*Eleutheronema tetradactylum* (Shaw)\*  
*Polydactylus indicus* (Shaw)\*

*Polydactylus borneensis* (Bleeker)\*  
*Polydactylus longipectoralis* (Weber and De Beaufort)\*

*Polydactylus plebejus* (Broussonet)\*  
*Polynemus paradiscus* Linnaeus\*

*Polydactylus sextarius* Bloch and Schneider\*

#### 140. FAMILY LABRIDAE—WRASSES

*Anampses caeruleopunctatus* Rüppell\*  
*Anampses geographicus* Cuvier and Valenciennes\*  
*Cheilinus diagramma* (Lacépède)\*  
*Cheilinus oxycephalus* Bleeker\*  
*Cheilinus trilobatus* Lacépède\*  
*Cheilo inermis* (Forskål)\*  
*Choerodon schoenleini* (Cuvier and Valenciennes)\*  
*Coris gaimardi* (Quoy and Gaimard)\*  
*Duymaeria flagellifera* (Cuvier and Valenciennes)  
*Gomphosus tricolor* Quoy and Gaimard\*  
*Halichoeres argus* (Bloch and Schneider)  
*Halichoeres centriquadrus* (Lacépède)\*  
*Halichoeres hoeveni* (Bleeker)\*  
*Halichoeres javanicus* (Bleeker)\*  
*Halichoeres leucurus* (Walbaum)\*

*Halichoeres marginatus* Rüppell\*  
*Halichoeres miniatus* (Cuvier and Valenciennes)

*Halichoeres nigrescens* (Bloch and Schneider)  
*Halichoeres trimaculatus* (Quoy and Gaimard)\*  
*Hemigymnus melapteris* (Bloch)\*  
*Hemipteronotus margaritatus* Fourmanoir\*  
*Hemipteronotus verrens* Jordan and Evermann\*  
*Iniistius dea* (Temminck and Schlegel)\*  
*Labroides dimidiatus* (Cuvier and Valenciennes)\*  
*Lepidaplois axillaris* (Bennett)  
*Lepidaplois diana* (Lacépède)\*  
*Lepidaplois mesothorax* (Bloch and Schneider)\*  
*Novaculichthys taeniourus* (Lacépède)\*  
*Pseudolabrus gracilis* (Steindachner)  
*Stethojulis interrupta* (Bleeker)\*  
*Stethojulis renardi* (Bleeker)\*  
*Thalassoma hardwicki* (Bennett)\*  
*Thalassoma lunare* (Linnaeus)\*  
*Thalassoma melanocheir* (Bleeker)  
*Xiphocheilus typus* Bleeker\*

*Anampses diadematus* Rüppell  
*Cheilinus chlorurus* (Bloch)  
*Cheilinus fasciatus* (Bloch)\*  
*Cheilinus rhodochrous* Günther\*  
*Cheilinus undulatus* Rüppell  
*Choerodon azurio* (Jordan and Snyder)\*  
*Cirrilabrus temmincki* Bleeker\*  
*Coris variegata* (Rüppell)\*  
*Epibulus insidiator* (Pallas)\*  
*Gomphosus varius* Lacépède\*  
*Halichoeres bimaculatus* Rüppell\*  
*Halichoeres cyanopleura* (Bleeker)\*  
*Halichoeres hyrtl* (Bleeker)\*  
*Halichoeres leparensis* (Bleeker)\*  
*Halichoeres margaritaceus* (Cuvier and Valenciennes)  
*Halichoeres melanocheir* Fowler and Bean\*  
*Halichoeres nebulosus* (Cuvier and Valenciennes)\*  
*Halichoeres prosopoeion* (Bleeker)\*  
*Hemigymnus fasciatus* (Bloch)\*  
*Hemipteronotus maculosus* Fourmanoir\*  
*Hemipteronotus pentadactylus* (Linnaeus)\*  
*Hologymnosus semidiscus* (Lacépède)\*  
*Iniistius pavo* (Cuvier and Valenciennes)\*  
*Labroides lineatus* Fourmanoir\*  
*Lepidaplois bilumulus* (Lacépède)\*  
*Lepidaplois hirsutus* (Lacépède)  
*Lepidaplois repditio* (Quoy and Gaimard)  
*Pseudocheilinus hexataenia* (Bleeker)\*  
*Stethojulis axillaris* (Quoy and Gaimard)\*  
*Stethojulis kalasoma* (Bleeker)  
*Thalassoma guentheri* (Bleeker)\*  
*Thalassoma janseni* (Bleeker)\*  
*Thalassoma lutescens* (Lay and Bennett)\*  
*Verreo oxycephalus* (Bleeker)

#### 141. FAMILY SCARIDAE—PARROT FISH

*Calotomus spinidens* (Quoy and Gaimard)  
*Leptoscarus vaigiensis* (Quoy and Gaimard)\*  
*Scarus blochi* Cuvier and Valenciennes\*  
*Scarus dimidiatus* Bleeker\*  
*Scarus fasciatus* Cuvier and Valenciennes\*  
*Scarus fosteri* Cuvier and Valenciennes\*  
*Scarus ghobban* Forskål\*  
*Scarus janthochir* Bleeker\*  
*Scarus microrhinos* Bleeker\*  
*Scarus oedema* (Snyder)\*

*Chlorurus gibbus* (Rüppell)  
*Scarops rubroviolaceus* (Bleeker)  
*Scarus bowersi* (Snyder)\*  
*Scarus dubius* Bennett\*  
*Scarus formosus* Cuvier and Valenciennes\*  
*Scarus frenatus* Lacépède\*  
*Scarus harid* Forskål\*  
*Scarus lepidus* Jenyns\*  
*Scarus niger* Forskål\*  
*Scarus oviceps* Cuvier and Valenciennes\*

*Scarus randalli* Schultz\*

*Scarus scaber* Cuvier and Valenciennes\*

*Scarus singaporensis* Bleeker\*

*Scarus urbanus* (J.L.B. Smith)\*

*Sparisoma viridis* (Bonnaterre)\*

*Scarus rhodropterus* (Bleeker)\*

*Scarus schlegeli* (Bleeker)\*

*Scarus sordidus* Forskål\*

*Scarus venosus* Cuvier and Valenciennes\*

#### 142. FAMILY OPISTHOGNATHIDAE—JAW FISH

*Gnathypops evermanni* Jordan and Snyder

*Opisthognathus castelnaui* Bleeker\*

*Gnathypops rosenbergi* (Bleeker)\*

*Opisthognathus nigromarginatus* Rüppell\*

#### 143. FAMILY MUGILOIDIDAE—GRUB FISH

*Parapercis aurantiaca* Döderlein

*Parapercis elongata* Fourmanoir\*

*Parapercis hexophthalma* (Cuvier and Valenciennes)\*

*Parapercis xanthozona* (Bleeker)

*Parapercis clathrata* Ogilby\*

*Parapercis filamentosa* (Steindachner)\*

*Parapercis pulchella* (Temminck and Schlegel)\*

#### 144. FAMILY URANOSCOPIDAE—STAR GAZERS

*Uranoscopus bicinctus* (Temminck and Schlegel)

*Uranoscopus kaianus* Günther\*

*Uranoscopus oligolepis* Bleeker

*Uranoscopus guttatus* Cuvier and Valenciennes\*

*Uranoscopus japonicus* Houttuyn

#### 145. FAMILY CHAMPSODONTIDAE

*Champsodon vorax* Günther\*

#### 146. FAMILY BLENNIDAE—BLENNIES

*Andamia heteroptera* (Bleeker)\*

*Entomacrodus decussatus* (Bleeker)

*Petroscirtes annamensis* Chabanaud

*Petroscirtes mitratus* Rüppell\*

*Petroscirtes variabilis* Cantor

*Salarias bilitonensis* Bleeker

*Salarias edentulus* (Bloch and Schneider)

*Salarias frenatus* (Cuvier and Valenciennes)\*

*Cirripectis variolosus* (Cuvier and Valenciennes)\*

*Entomacrodus striatus* (Quoy and Gaimard)\*

*Petroscirtes grammistes* (Cuvier and Valenciennes)

*Petroscirtes rhinorhynchus* Bleeker\*

*Plagiotremus spilistius* Gill

*Salarias dussumieri* Cuvier and Valenciennes\*

*Salarias fasciatus* (Bloch)

*Xiphasia setifer* Swainson\*

#### 147. FAMILY CONGROGADIDAE

*Congrogadus nebulatus* (Bleeker)\*

#### 148. FAMILY CALLIONYMIDAE—DRAGONETS

*Callionymus japonicus* Houttuyn

*Dactylopus dactylopus* (Cuvier and Valenciennes)\*

*Callionymus sagitta* Pallas\*

#### 149. FAMILY GOBIIDAE—GOBIES

*Acentrogobius balteatus* (Herre)

*Acentrogobius caninus* (Cuvier and Valenciennes)\*

*Acentrogobius reichei* (Bleeker)\*

*Amblygobius sphynx* (Cuvier and Valenciennes)\*

*Boleophthalmus pectinirostris* (Linnaeus)

*Ctenogobius criniger* (Cuvier and Valenciennes)\*

*Glossogobius biocellatus* (Cuvier and Valenciennes)

*Gobiodon erythropsilus* Bleeker\*

*Acentrogobius bellissimus* J.L.B. Smith\*

*Acentrogobius ornatus* (Rüppell)\*

*Amblygobius bynoensis* (Richardson)

*Bathygobius fuscus* (Rüppell)\*

*Cryptocentrus filifer* (Cuvier and Valenciennes)\*

*Ctenogobius zonalternans* (Day)

*Gnatholepis calliurus* Jordan and Seale\*

*Gobiodon quiquestrigatus* (Cuvier and Valenciennes)\*

*Lubricogobius ornatus* Fourmanoir\*

*Oplopomus caninoides* (Bleeker)\*

*Oxyurichthys microlepis* (Bleeker)

*Gobius philippi* Tirant

*Oligolepis acutipennis* (Cuvier and Valenciennes)

*Oplopomus oplopomus* (Cuvier and Valenciennes)\*

*Oxyurichthys tentacularis* (Cuvier and Valenciennes)  
*Paragobiodon echinocephalus* (Rüppell)\*  
*Periophthalmus barbarus* (Linnaeus)  
*Pseudapocryptes lanceolatus* (Bloch and Schneider)\*  
*Waitea duque* (J.L.B. Smith)\*

*Parachaeturichthys polynema* (Bleeker)\*  
*Periophthalmodon schlosseri* (Pallas)\*  
*Pleurosicya* sp.\*  
*Sicyodon albus* Fourmanoir

## 150. FAMILY ELEOTRIDAE—SLEEPERS

*Bostrichthys sinensis* (Lacépède)\*  
*Butis melanostigma* (Bleeker)\*  
*Eleotriodes wardi* (Playfair)\*  
*Eleotris melanosoma* Bleeker\*  
*Eviota distigma* Jordan and Seale\*  
*Oxyleotris marmorata* (Bleeker)\*  
*Oxymetopon formosum* Fourmanoir\*  
*Philypnus chalmersi* Nichols and Pope\*

*Butis butis* (Hamilton-Buchanan)\*  
*Eleotriodes strigatus* (Broussonet)\*  
*Eleotris fusca* (Bloch and Schneider)  
*Eleotris oxycephala* Temminck and Schlegel\*  
*Odontobutis obscura* (Temminck and Schlegel)  
*Oxymetopon filamentosum* Fourmanoir\*  
*Oxymetopon typus* Bleeker\*  
*Prionobutis koilomatodon* (Bleeker)\*

## 151. FAMILY TAENIOIDIDAE—RIBBON GOBIES

*Brachyamblyopus brachysoma* (Bleeker)  
*Taeniodes cirratus* (Blyth)\*  
*Trypauchen vagina* Bloch and Schneider\*

*Centrotrypauchen microcephalus* (Bleeker)  
*Taeniodes gracilis* (Cuvier and Valenciennes)\*

## 152. FAMILY ACANTHURIDAE—SURGEON FISH

*Acanthurus elongatus* (Lacépède)\*  
*Acanthurus matoides* Cuvier and Valenciennes\*  
*Acanthurus olivaceus* Bloch and Schneider\*  
*Acanthurus weberi* (Ahl)\*  
*Ctenochaetus striatus* (Quoy and Gaimard)\*  
*Naso brevirostris* (Cuvier and Valenciennes)\*  
*Naso thynnoides* (Cuvier and Valenciennes)  
*Zebrasoma flavescens* (Bennett)\*  
*Zebrasoma xanthurus* (Blyth)\*

*Acanthurus lineolatus* Cuvier and Valenciennes\*  
*Acanthurus nigricans* (Linnaeus)\*  
*Acanthurus triostegus* (Linnaeus)\*  
*Ctenochaetus binotatus* Randall  
*Ctenochaetus strigosus* (Bennett)\*  
*Naso lituratus* (Bloch and Schneider)\*  
*Naso unicornis* (Forskål)\*  
*Zebrasoma veliferum* (Bloch)\*

## 153. FAMILY ZANCLIDAE—MOORISH IDOLS

*Zanclus cornutus* (Linnaeus)\*

## 154. FAMILY SIGANIDAE—RABBITFISH

*Siganus canaliculatus* (Park)  
*Siganus corallinus* (Cuvier and Valenciennes)\*  
*Siganus javus* (Linnaeus)\*  
*Siganus rostratus* (Cuvier and Valenciennes)  
*Siganus virgatus* (Cuvier and Valenciennes)\*

*Siganus concatenatus* (Cuvier and Valenciennes)\*  
*Siganus guttatus* (Bloch)  
*Siganus oramin* (Bloch and Schneider)\*  
*Siganus stellatus* (Forskål)\*

## 155. FAMILY TRICHIURIDAE—CUTLASS FISH

*Trichiurus haumela* (Forskål)\*  
*Trichiurus savala* Cuvier\*

*Trichiurus muticus* Gray

## 156. FAMILY SCOMBRIDAE—MACKERELS, TUNAS

*Acanthocybium solandri* (Cuvier and Valenciennes)  
*Euthynnus affinis* (Cantor)\*  
*Gymnosarda unicolor* (Rüppell)\*  
*Pelamys* sp.  
*Rastrelliger kanagurta* (Cuvier)\*  
*Scomber japonicus* Houttuyn\*

*Auxis thazard* (Lacépède)  
*Grammatorcynus bicarinatus* (Quoy and Gaimard)\*  
*Katsuwonus pelamis* (Linnaeus)  
*Rastrelliger brachysoma* (Bleeker)\*  
*Sarda orientalis* (Temminck and Schlegel)  
*Scomberomorus cambodgiense* (Durand)\*

*Scomberomorus commersoni* (Lacépède)\**Scomberomorus guttatus* (Bloch and Schneider)\**Scomberomorus kuhli* (Cuvier and Valenciennes)*Scomberomorus lineolatus* (Cuvier and Valenciennes)\**Scomberomorus sinensis* (Lacépède)\**Thunnus albacares* (Bonnaterre)*Thunnus obesus* (Lowe)\**Thunnus tonggol* (Bleeker)*Thunnus thynnus* (Linnaeus)

## 157. FAMILY ISTIOPHORIDAE—SAILFISH, MARLINS

*Istiophorus gladius* (Broussonet)*Istiompax indicus* (Cuvier and Valenciennes)*Makaira nigricans* Lacépède*Tetrapturus* sp.

## 158. FAMILY NOMEIDAE

*Psenes indicus* (Day)\*

## 159. FAMILY STROMATEIDAE—POMFRETS

*Pampus argenteus* (Euphrasen)\**Pampus chinensis* (Euphrasen)\**Psenopsis anomala* (Temminck and Schlegel)\*

## 160. FAMILY ANABANTIDAE—CLIMBING PERCH

*Anabas testudineus* (Bloch)\**Helostoma temminckii* Cuvier and Valenciennes*Macropodus cupanus* (Cuvier and Valenciennes)*Macropodus opercularis* (Linnaeus)\**Osphronemus goramy* Lacépède\**Trichogaster pectoralis* (Regan)*Trichopodus leeri* (Bleeker)*Trichopodus trichopterus* (Pallas)*Trichopsis vittatus* (Cuvier and Valenciennes)

## 161. FAMILY MASTACEMBELIDAE—SPINY EELS

*Macrogathus aculeatus* (Bloch)\**Mastacembelus armatus* (Lacépède)\**Mastacembelus armatus favius* Hora\**Mastacembelus circumcinctus* Hora*Mastacembelus erythrotaenia* Bleeker\*

## 162. FAMILY PSETTODIDAE—HALIBUTS

*Psettodes erumei* (Bloch and Schneider)\*

## 163. FAMILY BOTHIDAE—LEFT HAND FLOUNDERS

*Arnoglossus aspilus* (Bleeker)*Bothus mancus* (Broussonet)*Bothus myriaster* (Temminck and Schlegel)*Bothus ovalis* Regan*Crossorhombus azureus* (Alcock)*Engyprosopon grandisquama* (Temminck and Schlegel)\**Grammatobothus kremphi* Chabanaud*Pseudorhombus annamensis* Chabanaud*Pseudorhombus arsius* (Hamilton-Buchanan)\**Pseudorhombus diplospilus* Norman*Pseudorhombus elevatus* Ogilby\**Pseudorhombus javanicus* (Bleeker)*Pseudorhombus neglectus* Bleeker*Pseudorhombus oligodon* (Bleeker)\**Pseudorhombus pentophthalmus* Günther*Tephrinectes sinensis* (Lacépède)

## 164. FAMILY PLEURONECTIDAE—RIGHT HAND FLOUNDERS

*Samaris cristatus* Gray\*

## 165. FAMILY SOLEIDAE—SOLES

*Aesopia cornuta* (Kaup)*Achiroides melanorhynchus* (Bleeker)\**Microglossus ovatus* Richardson*Pardachirus pavoninus* (Lacépède)\**Synaptura kremphi* Durand\**Synaptura orientalis* (Bloch and Schneider)\**Synaptura panoides* Bleeker\**Synaptura quagga* (Kaup)*Synaptura villosa* Weber\**Typhlachirus elongatus* Pellegrin and Chevey*Zebrias zebra* (Bloch)



## 166. FAMILY CYNOGLOSSIDAE—TONGUE FISH

- |  |  |
|--|--|
| <i>Cynoglossus arel</i> (Bloch and Schneider)                  | <i>Cynoglossus lingua</i> Hamilton-Buchanan* |
| <i>Cynoglossus macrolepidotus</i> (Bleeker)                    | <i>Cynoglossus microlepis</i> (Bleeker)*     |
| <i>Cynoglossus monopus</i> (Bleeker)*                          | <i>Cynoglossus pellegrini</i> Wu             |
| <i>Cynoglossus puncticeps immaculata</i> Pellegrin and Chevey* | <i>Cynoglossus trigrammus</i> Günther*       |
| <i>Cynoglossus xyphoideus</i> Günther*                         | <i>Paraplagusia bilineata</i> (Bloch)        |

## 167. FAMILY TRIACANTHIDAE—SPIKE FISH

- |  |                                    |
|--|------------------------------------|
| <i>Pseudotriacanthus strigillifer</i> (Cantor)*        | <i>Triacanthus blochi</i> Bleeker* |
| <i>Triacanthus brevirostris</i> Temminck and Schlegel* |                                    |

## 168. FAMILY BALISTIDAE—TRIGGER FISH

- |   |  |
|---|--|
| <i>Abalistes stellari</i> (Bloch and Schneider)*      | <i>Balistes vetula</i> Linnaeus                      |
| <i>Balistes vidua</i> Solander*                       | <i>Balistapus undulatus</i> (Park)*                  |
| <i>Balistoides conspicillum</i> (Bloch and Schneider) | <i>Balistoides viridescens</i> (Bloch and Schneider) |
| <i>Canthidermis maculatus</i> (Bloch)*                | <i>Odonus erythron</i> (Günther)                     |
| <i>Pseudobalistes flavimarginatus</i> (Rüppell)       | <i>Pseudobalistes fuscus</i> (Bloch and Schneider)   |
| <i>Rhinecanthus aculeatus</i> (Linnaeus)*             | <i>Rhinecanthus echarpe</i> (Lacépède)*              |
| <i>Sufflamen bursa</i> (Lacépède)*                    | <i>Sufflamen capistratus</i> (Shaw)                  |
| <i>Sufflamen chrysoptera</i> (Bloch and Schneider)*   |  |

## 169. FAMILY MONACANTHIDAE

- |  |  |
|--|--|
| <i>Aluterus monoceros</i> (Linnaeus)*                    | <i>Aluterus scriptus</i> (Forster)     |
| <i>Chaetoderma spinosissimus</i> (Quoy and Gaimard)      | <i>Monacanthus chinensis</i> (Bloch)   |
| <i>Stephanolepis setifer</i> (Bennett)                   | <i>Paraluteres sprionurus</i> Bleeker* |
| <i>Paramonacanthus choirocephalus</i> (Bleeker)          | <i>Pervagor tomentosus</i> (Linnaeus)* |
| <i>Pseudaluteres nasicornis</i> (Temminck and Schlegel)* | <i>Psilocephalus barbatus</i> (Gray)*  |

## 170. FAMILY OSTRACIONTIDAE—TRUNK FISH, BOX FISH

- |  |   |
|--|---|
| <i>Lactoria cornutus</i> Linnaeus*             | <i>Lactoria fornasini</i> (Bianconi)*           |
| <i>Ostracion punctatus</i> Bloch and Schneider | <i>Ostracion tuberculatus</i> Linnaeus*         |
| <i>Rhynchostracion nasus</i> (Bloch)*          | <i>Rhynchostracion rhinorhynchus</i> (Bleeker)* |

## 171. FAMILY TETRAODONTIDAE—PUFFER FISH

- |   |   |
|---|---|
| <i>Amblyrhynchotes hypselogeneion</i> (Bleeker)       | <i>Arothron biocellatus</i> (Tirant)                  |
| <i>Arothron cambodgiensis</i> (Chabanaud)*            | <i>Arothron fangi</i> (Pellegrin and Chevey)          |
| <i>Arothron hispidus</i> (Linnaeus)*                  | <i>Arothron immaculatus</i> (Bloch and Schneider)*    |
| <i>Arothron lorteli</i> (Tirant)*                     | <i>Arothron nigropunctatus</i> (Bloch and Schneider)* |
| <i>Arothron palembangensis</i> (Bleeker)              | <i>Arothron reticularis</i> (Bloch and Schneider)*    |
| <i>Arothron stellatus</i> (Bloch and Schneider)*      | <i>Canthigaster bennetti</i> (Bleeker)                |
| <i>Canthigaster margaritatus</i> (Rüppell)            | <i>Canthigaster valentini</i> (Bleeker)*              |
| <i>Chonerhinus modestus</i> (Bleeker)*                | <i>Chonerhinus naritus</i> (Richardson)               |
| <i>Dichotomyscter fluviatilis</i> (Hamilton-Buchanan) | <i>Fugu alboplumbeus</i> (Richardson)*                |
| <i>Fugu niphobles</i> (Jordan and Snyder)             | <i>Fugu rubripes</i> (Temminck and Schlegel)          |
| <i>Lagocephalus inermis</i> (Temminck and Schlegel)*  | <i>Lagocephalus lunaris</i> (Bloch and Schneider)*    |
| <i>Lagocephalus spadiceus</i> (Richardson)*           | <i>Pleuranacanthus scleratus</i> (Forster)*           |
| <i>Takifugu oblongus</i> (Bloch)*                     |   |

## 172. FAMILY TRIODONTIDAE

- Triodon bursarius* Reinwardt

## 173. FAMILY DIODONTIDAE—PORCUPINE FISH

- |   |                                 |
|---|---------------------------------|
| <i>Chilomycterus orbicularis</i> (Bloch)* | <i>Diodon bleekeri</i> Günther* |
| <i>Diodon holocanthus</i> Linnaeus*       | <i>Diodon hystrix</i> Linnaeus* |

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